AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (original) A method for compressing a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the method comprising the steps of:
- assigning at least said data parts with codes having less values than said first values,
- replacing said data parts in said data set by said assigned codes and producing a compressed data set.
- 2. (original) The method according to claim 1, wherein said markup hierarchy refer to a reference comprising a second markup hierarchy, which are resolved and assigned with codes.
- 3. (original) The method according to claim 1, wherein each code is unique.
- 4. (currently amended) The method according to any of preceding claims claim 1, wherein each code replacing a markup hierarchy in said data set is assigned a value pointed out by said markup hierarchy.

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- 5. (original) The method according to claim 1, wherein a code replacing a markup hierarchy in said data set is assigned a value comprised by a reference pointed out by said markup hierarchy.
- 6. (currently amended) The method according to ene of claims 4 or 5 claim 4, wherein a value pointed out by a markup hierarchy in said data set is one of a limited set of values defined in said data set, where each value is assigned a code that replaces said value in said data set.
- 7. (currently amended) The method according to any one of claims 4 or 5 claim 4, wherein a value pointed out by a markup hierarchy in said data set is a number and replaced by a numerical representation.
- 8. (original) The method according to claim 1, wherein said definition part is a document type definition (DTD) or an XML-schema and said data set is a markup document.
- 9. (original) The method according to claim 8, wherein said markup document is structured according to a markup language as XML, SGML or similar.
- 10. (original) A method of transmitting a data set from a first application to a second application, said data set having a markup hierarchy and comprising data parts having

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first values, said data set being arranged according to a definition part, the method comprising the steps of :

- generating a set of codes as a compression key defining said data parts defined
 in said definition part with codes having less values than said first values,
- storing said set of codes,
- assigning at least said markup hierarchy with said set codes,
- replacing said data parts in said data set by said assigned codes and producing
 a compressed data set, and
- transferring said compressed data set and said set of codes to said second application.
- 11. (original) The method of claim 10, wherein said set of codes and said compressed data are transferred in packages.
- 12. (original) The method of claim 11, wherein a package comprises at least a message type field, transmitting receiving application identity field, compression key and compressed data.
- 13. (original) The method of claim 12, wherein a package further comprises a message version field, and contains information sent to the Compression Handler (510), for handling key compression.

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- 14. (original) The method of claim 10, wherein said compression key is transmitted once or several times with each compress data transmission compressed with respect to said compression key.
- 15. (currently amended) The method according to any of claims 10 to 14 claim 10, wherein said compression key is compressed.
- 16. (currently amended) The method according to any of claims 10 to 15 claim 10, wherein said compressed data is compressed in an additional step.
- 17. (original) A system for data transmission between at least two stations, said data comprising a compressed data set according to any of preceding claims, the system comprising:
 - a Compression part, comprising:
 - o a compression Handler (510) for initiating a compression procedure,
 - o a Key Handler (520) for generating and handling keys corresponding to codes;
 - o a Storage device (10,525) for handling storage of generated keys,
 - o a Converter (530) for implementing a first step in coding of the data set to be compressed by mean of the keys;
 - o an Optimizer (535) for implementing a second step in optimizing the data set to be compressed,

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- o a Compressor (540) for implementing a third step of compression itself,
- a Transmission part, comprising:
- o a Transmitter (550) for handling all communication,
- o a Packet handler (555) for generating messages with respect to a Packet (570) for transmission and reception,
- o an interface (560) for listening to data transmission.
- 18. (original) The system of claim 17, further comprising a Compression Key (575) handler, Compression document handler (580), a non compressed data set handler (585) and a Protocol handler (590).
- 19. (original) The system of claim 17, wherein the Transmission Part handles the generation of a unique Application Identity, so that a receiver can identify incoming data and also the keys having unique identity.
- 20. (original) A program storage device readable by a machine and encoding a program for compressing a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, programme comprising:
- an instruction set for assigning at least said markup hierarchy defining said data
 parts defined in said definition part with codes having less values than said first
 values, and

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- an instruction set for replacing said data parts in said data set by said assigned codes and producing a compressed data set.
- 21. (original) A computer readable program code means for causing a computer to compress a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the computer readable program code means comprising:
- an instruction set for assigning at least said markup hierarchy defining said data parts defined in said definition part with codes having less values than said first values, and
- an instruction set for replacing said data parts in said data set by said assigned codes and producing a compressed data set.
- 22. (original) An article of manufacture comprising a computer useable medium having computer readable programs code means embodied therein for causing a compression of a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the computer readable program code means in said article of manufacture comprising:
- an instruction set for assigning at least said markup hierarchy defining said data parts defined in said definition part with codes having less values than said first values, and

- an instruction set for replacing said data parts in said data set by said assigned codes and producing a compressed data set.
- 23. (original) A propagated signal comprising a computer readable programs code means for causing a compression of a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the computer readable program code means in said propagated signal comprising:
- an instruction set for assigning at least said markup hierarchy defining said data parts defined in said definition part with codes having less values than said first values, and
- an instruction set for replacing said data parts in said data set by said assigned codes and producing a compressed data set.
- 24. (original) A computer readable medium having stored therein a protocol with plurality of messages for obtaining compressed data from a remote application, the protocol comprising:
- a request message for receiving a set of compressed data set,
- a request for receiving a set of codes used for compressing said compressed
 data set having a markup hierarchy and comprising data parts having first values,
 said data set being arranged according to a definition part, at least said markup
 hierarchy defining said data parts defined in said definition part being assigned

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with codes having less values than said first values, and said data parts being replaced in said data set by said assigned codes,

- a response comprising said compressed data and said codes,
- a response comprising identity of application and unique identity of codes.

25. (original) A communication system comprising a first unit (710) controlling a second unit (720) communicating through communications network (730), said first unit sending a data set having a markup hierarchy and comprising data parts having first values, said data set being arranged according to a definition part, the system further comprising a compressing unit (760) and decompressing unit (770), wherein said compressing unit is arranged to:

- assign at least said data parts with codes having less values than said first values,
- replace said data parts in said data set by said assigned codes and producing a compressed data set.

26. (currently amended) The system of claim 25, wherein said first unit (710) is any of a mobile station, a mobile phone, a palm size computer, a computer or similar.

27. (original) The system of claim 25, wherein said first unit (710) is a remote control or monitoring device.

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28. (original) The system of claim 25, wherein second unit (720) is a remotely controlled arrangement such as robot, a vehicle, a missile.